Friday 9 June 2017 Morning Time allowed: 1 hour 30 minutes

Instructions
- Use black ink or black ball-point pen.
  Use pencil only for drawing.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided.
  Do not write outside the box around each page or on blank pages.
- Do all rough work in this book.
  Cross through any work you do not want to be marked.

Information
- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- Question 8 should be answered in continuous prose.
  In this question you will be marked on your ability to use good English, organise information clearly and use specialist vocabulary where appropriate.
### Section A

Answer all questions in the spaces provided.

1 (a) Social networking sites are ICT systems which consist of several components.

Setting your privacy levels on a social networking site would be an example of:

<table>
<thead>
<tr>
<th>Hardware</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>People</td>
<td></td>
</tr>
<tr>
<td>Procedures</td>
<td></td>
</tr>
<tr>
<td>Software</td>
<td></td>
</tr>
</tbody>
</table>

Tick (✔) one box which indicates the correct answer.  

[1 mark]

1 (b) Social networking sites need to be available 24/7 and have to provide continuity of service for their users.

Explain how these sites could provide continuity of service for their users.

[6 marks]
Turn over for the next question
Describe the types of processing used when a customer withdraws money from an ATM. [6 marks]
3 (a) A family home network consists of several computers linked together wirelessly through a router which also provides access to the Internet.

Describe threats to this network. At least one threat should be from inside the home and one threat from outside. [6 marks]

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3 (b) Describe measures that the family could take to protect their network from threats. [4 marks]
The use of ICT can be influenced by cultural, environmental, social and ethical factors.

Link, with a **straight** line, each use of ICT to the factor which is most relevant to it.

**[3 marks]**

<table>
<thead>
<tr>
<th>Use of ICT</th>
<th>Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creating a website to leak confidential government information</td>
<td>Cultural</td>
</tr>
<tr>
<td>Printing copies of all the emails you receive</td>
<td>Environmental</td>
</tr>
<tr>
<td>Creating a blog to discuss your hobby interests with others</td>
<td>Social</td>
</tr>
<tr>
<td>Using the World Wide Web to find out more about people in other countries</td>
<td>Ethical</td>
</tr>
</tbody>
</table>

**Turn over for the next question**
5 Discuss, using a range of examples, jobs working in ICT which are available to ICT professionals.

[12 marks]
6 Interfaces allow users to interact with ICT systems.

The command line interface, menu interface and graphical user interface are three common types of user interface.

Discuss the characteristics of each of these three different types of interface including their benefits and limitations.

[12 marks]
Read the article below.

Modern smartphones allow their owners to make payments in shops around the country.

Users upload their bank card details to their phone.

Once it is set up, they can pay for goods by holding their phone near a shop's contactless card reader.

This is one example of a communication technology used in modern mobile devices.

Modern mobile devices make use of a variety of communication technologies.

Using examples, describe the different communication technologies used by modern mobile devices.

[10 marks]
Many people have concerns about the security of personal data held in ICT systems.

Discuss the current legislation and regulations in place to deter threats to the security of personal data held in ICT systems.

[20 marks]

In this question you will be marked on your ability to use good English, to organise information clearly and to use specialist vocabulary where appropriate.

This space is available for planning your answer, if you wish to use it.
There are no questions printed on this page
There are no questions printed on this page

DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED